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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/577,193	04/26/2006	Masaki Soda	211A 3856 PCT 1414		
<sup>3713</sup> QUINN EMAN	7590 11/27/200 NUEL	EXAMINER			
KODA & AND	ROLIA	PICKARD, ALISON K			
LOS ANGELE	ROA STREET, 10TH F S, CA 90017	ART UNIT	PAPER NUMBER		
			3676		
			MAIL DATE	DELIVERY MODE	
			11/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/577,19	3	SODA ET AL.				
		Examiner		Art Unit				
		Alison K. P		3676				
The MAILING DATE Period for Reply	of this communication app	ears on the	cover sheet with the co	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status				4				
1) Responsive to comm	nunication(s) filed on							
2a) ☐ This action is <b>FINAL</b>			n final					
<u>'</u>	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			.,,					
	pending in the application							
	<ul> <li>✓ Claim(s) 1-6 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>							
	5) Claim(s) is/are allowed.							
<u> </u>	6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s) is/ai	-							
	•	r election re	quirement					
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
	bjected to by the Examine		<b>-</b>					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	uest that any objection to the		· · · · · · · · · · · · · · · · · · ·					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 11	9							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
		•						
Attachment(s)								
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4 Paper No(s)/Mail Date 5) Notice of Informal Patent Application								
i) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:								

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#### **DETAILED ACTION**

# Claim Objections

Claims 1-6 are objected to because of the following informalities: Please use consistent claim terminology. For example, it appears "a stationary member" should be --said stator-- in the second to last line of claim 1. Also, "topped" (line 9) should be --stopped--. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burgmann (3,973,779).

Burgmann (see Figs. 4 and 5) discloses a sealing device comprising a rotor 25d mounted to a shaft 3 and a stator 6d mounted to a housing 2. A movable floating ring 19d is mounted in a seal gap formed between the rotor and stator. The rotor has a seal lip 10d that contacts a face of the stator (at 11d) when the shaft is stopped and that is spaced from the face due to centrifugal force when the shaft rotates (see col. 7, lines 30-33 and 56-59). The floating ring has an annular notch (e.g. at 22d) and a concavoconvex pattern 23d on its surface. As seen in the Figures, the gap and ring varies in diameter from the left to the right. The floating ring appears to have a length (in an axial direction) greater than a thickness (in a radial direction). However, Burgmann does not specifically disclose the ratio of 3 to 1. It is not considered inventive to discover the

optimum or workable ranges by routine experimentation absent some showing of criticality. See In re Aller, 105 USPQ 233, 235 (CCPA 1955). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the length at least 3 times the thickness.

Regarding claims 2 and 3, Burgmann does not disclose the material used. The selection of a known material based on its suitability for its intended use is considered obvious. See In re Leshin, 125 USPQ 416 (CCPA 1960). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the ring from fluorine resin.

### Response to Arguments

3. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alison K. Pickard whose telephone number is 571-272-7062. The examiner can normally be reached on M-F (9-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer Gay can be reached on 571-272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alison K. Pickard Primary Examiner Art Unit 3676